



ISSRPPM

INTERNATIONAL SUMMER
SCHOOL OF RENAL PATHOLOGY
& PRECISION MEDICINE
Bari, Italy, June 10-21, 2024

SCHOOL FRAMEWORK

www.issrppm.org

The CME-accredited International Summer School of Renal Pathology & Precision Medicine (ISSRPPM) will be held at the University of Bari in June 2024 with state-of-the-art facilities.

This educational endeavor is dedicated to advancing knowledge of kidney disease and improving management of kidney diseases.

The school builds on the previously established International Summer School of Renal Pathology (ISSRP) since 2011 and aims to train the next generation of renal pathologists to practice integrated nephropathology.

The school will be organized into 4 modules:

- Precision Medicine – Basic Concepts from tissue procurement to data extraction and analysis
- Pathology of Native Kidney Diseases with clinico-pathologic and molecular correlation
- Digital Pathology and Image Analysis of Kidney Diseases
- Molecular Nephropathology & Data Integration

Each module will include:

- Formal didactic lectures
 - Renal Pathology
 - Image analysis
 - Omics technologies
- Laboratory experience for small groups
 - Review of cases and small group case study with instructor
 - Image analysis
 - Relevant Omics technologies
- Data integration & phenotyping-endotyping – Case studies

CURRICULUM

RENAL PATHOLOGY OF NATIVE KIDNEY DISEASES

- Podocytopathies
- Mitochondriopathies
- Collagenopathies
- Immune-Complex mediated glomerulonephritis
- Complement mediated glomerulonephritis
- Crescentic glomerulonephritis
- Vascular diseases
- Monoclonal diseases of renal significance & organized deposits
- Diabetic kidney disease
- Chronic kidney disease
- Tubulointerstitial diseases
- Renal storage diseases

COMPUTATIONAL IMAGE ANALYSIS

- Principles of digital pathology
- Histo-tools
- Annotation-segmentation best practices
- Machine Learning classifiers
- Pathomic feature extraction
- Digital biomarkers
- Visualization tools
- Image analysis in clinical practice

MOLECULAR NEPHROPATHOLOGY

- Genetics of kidney diseases
- Technologies and analytical approaches in kidney tissue and biofluids
- Spatial omic analysis
- Multiscale data integration
- Principles in data mining strategies and interfaces
- Specific search engines
- Data integration

CONTACTS



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Endorsement

